



IFWO

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/784,300

DATE: 09/17/2004

TIME: 10:46:30

Input Set : N:\Crf3\RULE60\10784300.raw

Output Set: N:\CRF4\09172004\J784300.raw

SEQUENCE LISTING

1 (1) GENERAL INFORMATION:

(i) APPLICANT: BLACK, Roy A.

PAXTON, Raymond J.

BODE, Wolfram

NASKOS, Klaus

FERNANDEZ-CATALAN, Carlos

(ii) TITLE OF INVENTION: CRYSTALLINE TNF-alpha-CONVERTING ENZYME
AND USES THEREOF

(iii) NUMBER OF SEQUENCES: 6

(iv) CORRESPONDENCE ADDRESS:

(A) ADDRESSEE: Foley & Lardner

(B) STREET: Suite 500, 3000 K Street NW

(C) CITY: Washington

(D) STATE: DC

(E) COUNTRY: USA

(F) ZIP: 200078696

(v) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: Floppy disk

(B) COMPUTER: IBM PC compatible

(C) OPERATING SYSTEM: PC-DOS/MS-DOS

(D) SOFTWARE: PatentIn Release #1.0, Version #1.30

(vi) CURRENT APPLICATION DATA:

(A) APPLICATION NUMBER: US/10/784,300

(B) FILING DATE: 24-Feb-2004

(C) CLASSIFICATION:

(vii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: US/09/244,984

(B) FILING DATE: 04-Feb-1999

(A) APPLICATION NUMBER: US 09/050,083

(B) FILING DATE: 30-MAR-1998

(A) APPLICATION NUMBER: US 60/073,709

(B) FILING DATE: 05-FEB-1998

(viii) ATTORNEY/AGENT INFORMATION:

(A) NAME: Isacson, John P.

(B) REGISTRATION NUMBER: 33,715

(C) REFERENCE/DOCKET NUMBER: 016761/0144

(ix) TELECOMMUNICATION INFORMATION:

(A) TELEPHONE: 202-672-5300

(B) TELEFAX: 202-672-5399

(2) INFORMATION FOR SEQ ID NO: 1:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 10 amino acids



RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/784,300

DATE: 09/17/2004

TIME: 10:46:30

Input Set : N:\Crf3\RULE60\10784300.raw

Output Set: N:\CRF4\09172004\J784300.raw

```

45         (B) TYPE: amino acid
46         (C) STRANDEDNESS:
47         (D) TOPOLOGY: linear
48     (ii) MOLECULE TYPE: peptide
49     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
50         Pro Leu Ala Gln Ala Val Arg Ser Ser Ser
51         1             5             10
53 (2) INFORMATION FOR SEQ ID NO: 2:
54     (i) SEQUENCE CHARACTERISTICS:
55         (A) LENGTH: 8 amino acids
56         (B) TYPE: amino acid
57         (C) STRANDEDNESS:
58         (D) TOPOLOGY: linear
59     (ii) MOLECULE TYPE: peptide
60     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
61         Gly Ser His His His His His
62         1             5
64 (2) INFORMATION FOR SEQ ID NO: 3:
65     (i) SEQUENCE CHARACTERISTICS:
66         (A) LENGTH: 11 amino acids
67         (B) TYPE: amino acid
68         (C) STRANDEDNESS:
69         (D) TOPOLOGY: linear
70     (ii) MOLECULE TYPE: peptide
71     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
W--> 72         His Glu Xaa Xaa His Xaa Xaa Gly Xaa Xaa His
73         1             5             10
75 (2) INFORMATION FOR SEQ ID NO: 4:
76     (i) SEQUENCE CHARACTERISTICS:
77         (A) LENGTH: 203 amino acids
78         (B) TYPE: amino acid
79         (C) STRANDEDNESS:
80         (D) TOPOLOGY: linear
81     (ii) MOLECULE TYPE: peptide
82     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
83         Glu Gln Asn Leu Pro Gln Arg Tyr Ile Glu Leu Val Val Val Ala Asp
84         1             5             10             15
85         Arg Arg Val Phe Met Lys Tyr Asn Ser Asp Leu Asn Ile Ile Arg Thr
86         20             25             30
87         Arg Val His Glu Ile Val Asn Ile Ile Asn Glu Phe Tyr Arg Ser Leu
88         35             40             45
89         Asn Ile Arg Val Ser Leu Thr Asp Leu Glu Ile Trp Ser Gly Gln Asp
90         50             55             60
91         Phe Ile Thr Ile Gln Ser Ser Ser Ser Asn Thr Leu Asn Ser Phe Gly
92         65             70             75             80
93         Glu Trp Arg Glu Arg Val Leu Leu Thr Arg Lys Arg His Asp Asn Ala
94         85             90             95
95         Gln Leu Leu Thr Ala Ile Asn Phe Glu Gly Lys Ile Ile Gly Lys Ala
96         100             105             110

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/784,300

DATE: 09/17/2004

TIME: 10:46:30

Input Set : N:\Crif3\RULE60\10784300.raw

Output Set: N:\CRF4\09172004\J784300.raw

```

97      Tyr Thr Ser Ser Met Cys Asn Pro Arg Ser Ser Val Gly Ile Val Lys
98          115                      120                      125
99      Asp His Ser Pro Ile Asn Leu Leu Val Ala Val Thr Met Ala His Glu
100          130                      135                      140
101      Leu Gly His Asn Leu Gly Met Glu His Asp Gly Lys Asp Cys Leu Arg
102          145                      150                      155                      160
103      Gly Ala Ser Leu Cys Ile Met Arg Pro Gly Leu Thr Pro Gly Arg Ser
104          165                      170                      175
105      Tyr Glu Phe Ser Asp Asp Ser Met Gly Tyr Tyr Gln Lys Phe Leu Asn
106          180                      185                      190
107      Gln Tyr Lys Pro Gln Cys Ile Leu Asn Lys Pro
108          195                      200

```

(2) INFORMATION FOR SEQ ID NO: 5:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 287 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS:
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:

```

118      Pro Glu Glu Leu Val His Arg Val Lys Arg Arg Ala Asp Pro Asp Pro
119      1          5          10          15
120      Met Lys Asn Thr Cys Lys Leu Leu Val Val Ala Asp His Arg Phe Tyr
121          20          25          30
122      Arg Tyr Met Gly Arg Gly Glu Glu Ser Thr Thr Thr Asn Tyr Leu Ile
123          35          40          45
124      Glu Leu Ile Asp Arg Val Asp Asp Ile Tyr Arg Asn Thr Ser Trp Asp
125          50          55          60
126      Asn Ala Gly Phe Lys Gly Tyr Gly Ile Gln Ile Glu Gln Ile Arg Ile
127          65          70          75          80
128      Leu Lys Ser Pro Gln Glu Val Lys Pro Gly Glu Lys His Tyr Asn Met
129          85          90          95
130      Ala Lys Ser Tyr Pro Asn Glu Glu Lys Asp Ala Trp Asp Val Lys Met
131          100         105         110
132      Leu Leu Glu Gln Phe Ser Phe Asp Ile Ala Glu Glu Ala Ser Lys Val
133          115         120         125
134      Cys Leu Ala His Leu Phe Thr Tyr Gln Asp Phe Asp Met Gly Thr Leu
135          130         135         140
136      Gly Leu Ala Tyr Val Gly Ser Pro Arg Ala Asn Ser His Gly Gly Val
137          145         150         155         160
138      Cys Pro Lys Ser Gly Ser Ser Gly Gly Ile Cys Glu Lys Ala Tyr Tyr
139          165         170         175
140      Ser Pro Val Gly Lys Lys Asn Ser Lys Leu Tyr Ser Asp Gly Lys Lys
141          180         185         190
142      Lys Glu Ala Asp Leu Val Thr Thr His Glu Leu Gly His Asn Phe Gly
143          195         200         205
144      Ala Glu His Asp Pro Asp Gly Leu Ala Glu Cys Ala Pro Asn Glu Asp
145          210         215         220
146      Gln Gly Gly Lys Tyr Val Met Tyr Pro Ile Ala Val Ser Gly Asp His

```

RAW SEQUENCE LISTING

DATE: 09/17/2004

PATENT APPLICATION: US/10/784,300

TIME: 10:46:30

Input Set : N:\Crf3\RULE60\10784300.raw

Output Set: N:\CRF4\09172004\J784300.raw

```

147          225          230          235          240
148      Glu Asn Asn Lys Met Phe Ser Asn Cys Ser Lys Gln Ser Ile Tyr Lys
149                      245          250          255
150      Thr Ile Glu Ser Lys Ala Gln Glu Cys Phe Gln Glu Arg Ser Asn Lys
151                      260          265          270
152      Val Cys Gly Asn Ser Arg Val Asp Glu Gly Glu Glu Cys Asp Pro
153          275          280          285
155 (2) INFORMATION FOR SEQ ID NO: 6:
156     (i) SEQUENCE CHARACTERISTICS:
157         (A) LENGTH: 276 amino acids
158         (B) TYPE: amino acid
159         (C) STRANDEDNESS:
160         (D) TOPOLOGY: linear
161     (ii) MOLECULE TYPE: peptide
162     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
163         Gln Glu Lys His Ala Ile Asn Gly Pro Glu Leu Leu Arg Lys Arg Arg
164         1          5          10          15
165         Thr Thr Ser Ala Glu Lys Asn Thr Cys Gln Leu Tyr Ile Gln Thr Asp
166         20          25          30
167         His Leu Phe Phe Lys Tyr Tyr Gly Thr Arg Glu Ala Val Ile Ala Gln
168         35          40          45
169         Ile Ser Ser His Val Lys Ala Ile Asp Thr Ile Tyr Gln Thr Thr Asp
170         50          55          60
171         Phe Ser Gly Ile Arg Asn Ile Ser Phe Met Val Lys Arg Ile Arg Ile
172         65          70          75          80
173         Asn Thr Thr Ala Asp Glu Lys Asp Pro Thr Asn Pro Phe Arg Phe Pro
174         85          90          95
175         Asn Ile Ser Val Glu Lys Phe Leu Glu Leu Asn Ser Glu Gln Asn His
176         100          105          110
177         Asp Asp Tyr Cys Leu Ala Tyr Val Phe Thr Asp Arg Asp Phe Asp Asp
178         115          120          125
179         Gly Val Leu Gly Leu Ala Trp Val Gly Ala Pro Ile Tyr Leu Asn Ser
180         130          135          140
181         Gly Leu Thr Ser Thr Ser Leu Asn Thr Gly Ile Ile Thr Val Lys Asn
182         145          150          155          160
183         Tyr Gly Lys Thr Ile Leu Thr Lys Gln Asn Tyr Gly Ser His Val Pro
184         165          170          175
185         Pro Lys Val Ser His Ile Thr Phe Ala His Glu Val Gly His Asn Phe
186         180          185          190
187         Gly Ser Pro His Asp Ser Gly Thr Glu Cys Thr Pro Gly Glu Ser Lys
188         195          200          205
189         Asn Leu Gly Gln Lys Glu Asn Gly Asn Tyr Ile Met Tyr Ala Arg Ala
190         210          215          220
191         Thr Ser Gly Asp Lys Leu Asn Asn Asn Lys Phe Ser Leu Cys Ser Ile
192         225          230          235          240
193         Arg Asn Ile Ser Gln Val Leu Glu Lys Lys Arg Asn Asn Cys Phe Val
194         245          250          255
195         Glu Ser Gly Gln Pro Ile Cys Gly Asn Gly Met Val Glu Gln Gly Glu
196         260          265          270

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/784,300

DATE: 09/17/2004

TIME: 10:46:30

Input Set : N:\Crf3\RULE60\10784300.raw

Output Set: N:\CRF4\09172004\J784300.raw

197

Glu Cys Asp Cys

198

275

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/784,300

DATE: 09/17/2004
TIME: 10:46:31

Input Set : N:\Crf3\RULE60\10784300.raw
Output Set: N:\CRF4\09172004\J784300.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:3; Xaa Pos.3,4,6,7,9,10

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/784,300

DATE: 09/17/2004

TIME: 10:46:31

Input Set : N:\Crf3\RULE60\10784300.raw

Output Set: N:\CRF4\09172004\J784300.raw

L:23 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
L:24 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]
L:29 M:238 W: Alpha Fields not Ordered, Reordered [(C) CLASSIFICATION:] of (1)(vi)
L:30 M:220 C: Keyword misspelled or invalid format, [(vii) PRIOR APPLICATION DATA:]
L:33 M:238 W: Alpha Fields not Ordered, Reordered [(A) APPLICATION NUMBER:] of (1)(vii)
L:35 M:220 C: Keyword misspelled or invalid format, [(viii) ATTORNEY/AGENT INFORMATION:]
L:39 M:220 C: Keyword misspelled or invalid format, [(ix) TELECOMMUNICATION INFORMATION:]
L:72 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0